



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20241217017.0
Datasheet for TLC556x
Information Only Datasheet**

Date: December 18, 2024

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team
SC Business Services

20241217017.0
Information Only Datasheet
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TLC556MD	NULL
TLC556ID	NULL
TLC556IDRG4	NULL
TLC556ID	
TLC556CN	NULL
TLC556CD	NULL
TLC556MDR	NULL

Technical details of this Product Change follow on the next page(s).

PCN Number:	20241217017.0	PCN Date:	December 18, 2024
Title:	Datasheet for TLC556x		
Customer Contact:	Change Management team	Dept:	Quality Services
Change Type:	Electrical Specification		

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



TLC556, TLC556M
SLFS047C – FEBRUARY 1984 – REVISED DECEMBER 2024

Changes from Revision B (September 1997) to Revision C (December 2024)

Page

• Added <i>Applications</i> section.....	1
• Added <i>Package Information</i> table and <i>Simplified Schematic</i> figure to <i>Description</i>	1
• Deleted paragraph regarding ESD ratings under MIL-STD-883C, Method 3015 in <i>Description</i>	1
• Added <i>Pin Functions</i> tables to <i>Pin Configuration and Functions</i>	3
• Deleted <i>TLC556Y Chip Information</i> section.....	3
• Deleted continuous total power dissipation specification from <i>Absolute Maximum Ratings</i> and restructured table for clarity.....	4
• Added <i>ESD Ratings</i> table and HBM and CDM specifications.....	4
• Changed <i>Power Dissipation Ratings</i> table to <i>Thermal Information</i> , and updated per-package thermal specifications.....	4
• Changed reset current ($I_{(reset)}$) test conditions to $V_{RESET} = V_{DD}$, in <i>Electrical Characteristics: $V_{DD} = 2V$ for TLC556C, $V_{DD} = 3V$ for TLC556I, Electrical Characteristics: $V_{DD} = 5V$, and Electrical Characteristics: $V_{DD} = 15V$</i>	5
• Changed supply current (I_{DD}) typical value from 130 μ A to 275 μ A in <i>Electrical Characteristics: $V_{DD} = 2V$ for TLC556C, $V_{DD} = 3V$ for TLC556I</i>	5
• Added new reset current ($I_{(reset)}$) typical specification, for test condition $V_{RESET} = 0V$, to <i>Electrical Characteristics: $V_{DD} = 5V$ and Electrical Characteristics: $V_{DD} = 15V$</i>	6
• Changed supply current (I_{DD}) typical value from 340 μ A to 360 μ A in <i>Electrical Characteristics: $V_{DD} = 5V$</i>	6
• Changed title of <i>Operating Characteristics</i> section to <i>Switching Characteristics</i> and clarified that values are specified by design or characterization.....	8
• Deleted initial error of timing interval specification in <i>Timing Characteristics</i>	8
• Updated <i>Application Information</i> section and renamed to <i>Astable Operation</i>	12
• Updated equations for output driver duty cycle and output waveform duty cycle in <i>Astable Operation</i>	12
• Added <i>Application and Implementation</i> section with pulse-width modulation and pulse-position modulation applications	14
• Added <i>Designing for Improved ESD Performance</i> section to <i>Application Information</i>	14

The datasheet number will be changing.

Device Family	Change From:	Change To:
TLC556x	SLFS047B	SLFS047C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TLC556>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact.			
Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
TLC556CD	TLC556CDG4	TLC556CN	TLC556ID
TLC556IDG4	TLC556IDRG4	TLC556MD	TLC556MDG4
TLC556MDR			

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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